Emerging Technology

Composite-Reinforced Pipe

Composite technology uses high-strength isopolyester resin-glass fiber to reinforce conventional steel liners, increasing the carrying capacity of pipelines. These pipelines can be safely operated up to pressures of 3,400 psi and offer enhanced pipeline integrity. This type of pipe is ideally suited to long, high-pressure transmission lines. Testing of the composite-reinforced pipe is continuing in the field with regulatory approval for use as natural gas pipelines in Canada expected in 2005. With the proper pre-stress of this pipe on a ductile steel core, the potential for hydrogen induced cracking is significantly reduced. Therefore, it is the ideal pipe for the transmission of hydrogen.

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